

FIG. 1 (RELATED ART)

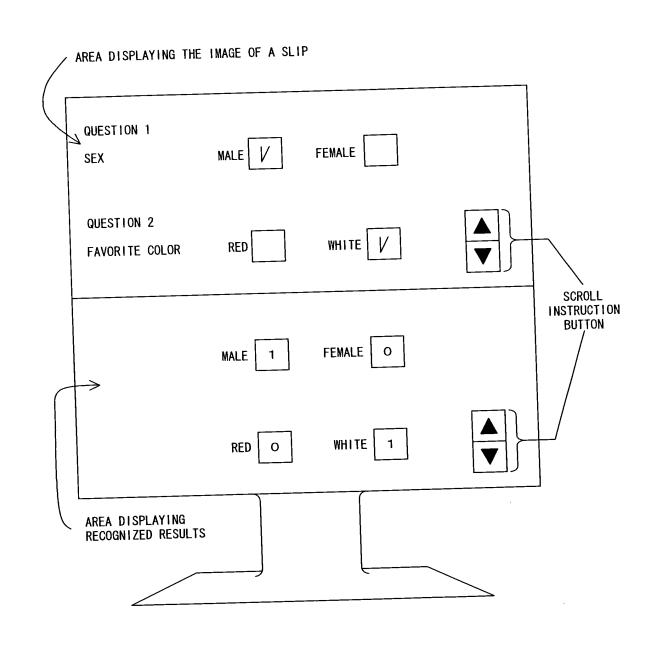


FIG. 2 (RELATED ART)

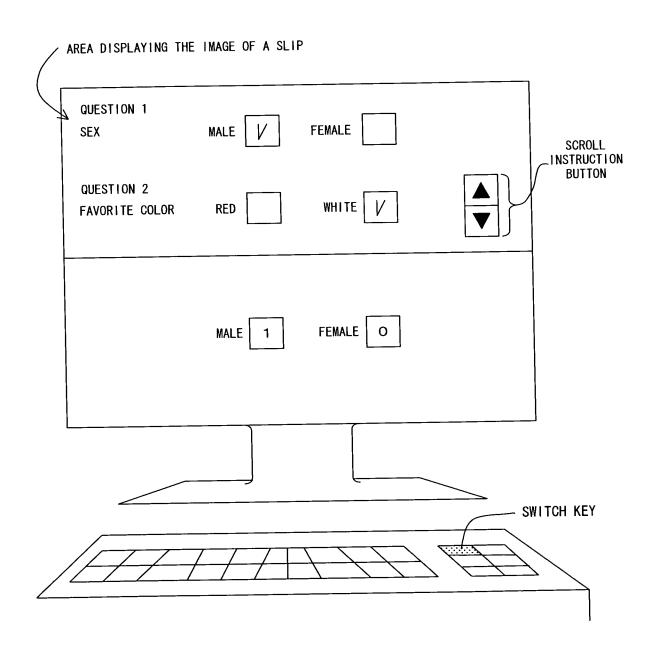
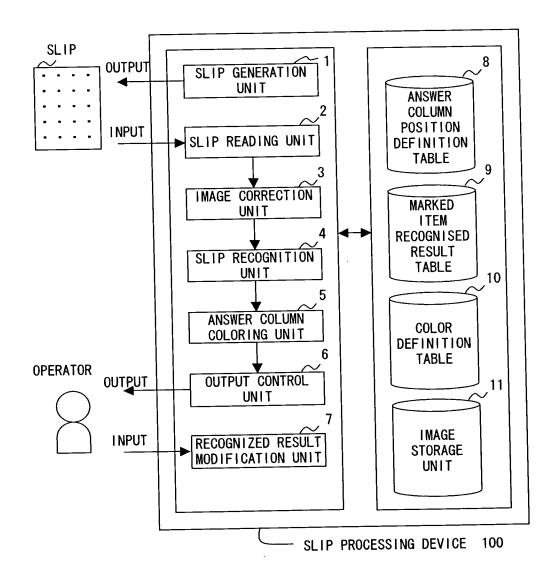


FIG. 3 (RELATED ART)



F I G. 4

## ANSWER COLUMN POSITION DEFINITION TABLE

	START X-COORDINATE	START Y-COORDINATE	END X-COORDINATE	END Y-COORDINATE
QUESTION 1	10	15	50	20
MALE	20	15	25	20
FEMALE	30	15	35	20
QUESTION 2	10	30	50	35
RED	20	30	25	35
WHITE	30	30	35	35

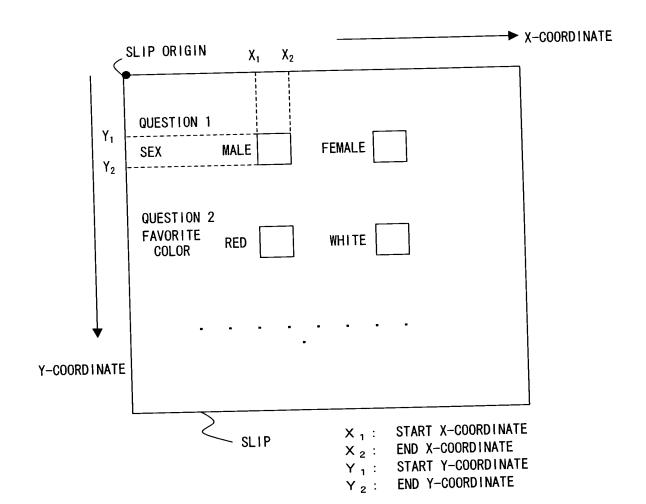


FIG. 6

MARKED ITEM RECOGNIZED RESULT TABLE

MALE	1
FEMALE	0
RED	0
WHITE	1

# COLOR DEFINITION TABLE

RECOGNIZED RESULT	COLOR
1	RED
0	BLUE
2	GREEN

## DESIGN OF A SLIP A SLIP IS GENERATED ON A SCREEN

SLIP

QUESTION 1 SEX MALE FEMALE QUESTION 2 FAVORITE RED WHITE COLOR	PRINTS THE SLIP	QUESTION 1 SEX QUESTION 2 FAVORITE COLOR	MALE RED	FEMALE
FIG. 9A			FIG	9 B



THE POSITION OF QUESTIONS AND ANSWER COLUMNS ARE STORED IN THE ANSWER COLUMN POSITION DEFINITION TABLE

ANSWER COLUMN DEFINITION TABLE

	START	START	END	END
	X-COORDINATE	Y-COORDINATE	X-COORDINATE	Y-COORDINATE
QUESTION 1	10	15	50	20
MALE	20	15	25	20
FEMALE	30	15	35	20
QUESTION 2	10	30	50	35
RED	20	30	25	35
WHITE	30	30	35	35

FIG. 9C

#### SLIP READING AND MARK RECOGNITION

QUESTION SEX QUESTION	MALE	×	FEMALE
FAVORITE COLOR	RED		WHITE X
Į.			

FIG. 10A



THE RECOGNIZED RESULTS OF ITEMS ARE STORED IN A TABLE

MARKED ITEM RECOGNIZED RESULT TABLE

MALE	1
FEMALE	0
RED	0
WHITE	1

FIG. 10B



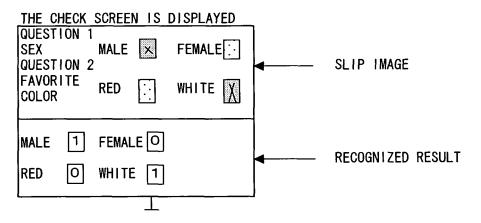


FIG. 10C

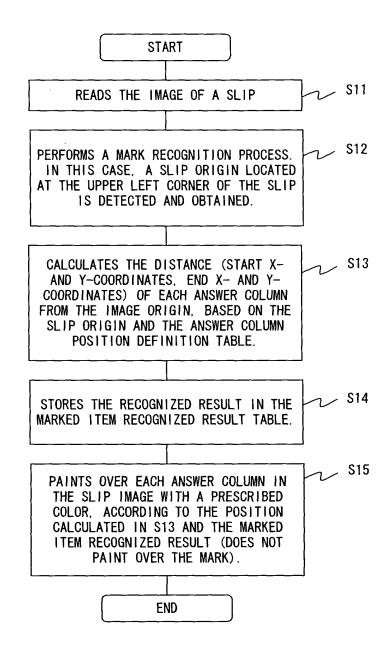
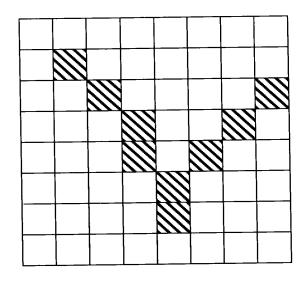


FIG. 11





# F I G. 13A

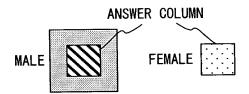


FIG. 13B

SEX QUEST FAVORI COLOR		MALE RED	<u>[,</u>	FEMALE WHITE
MALE	0	FEMAL	EO	
RED	0	WHITE	1	

MARKED ITEM RECOGNIZED RESULT TABLE

MALE	0
FEMALE	0
RED	0
WHITE	1

FIG. 14A FIG. 14B

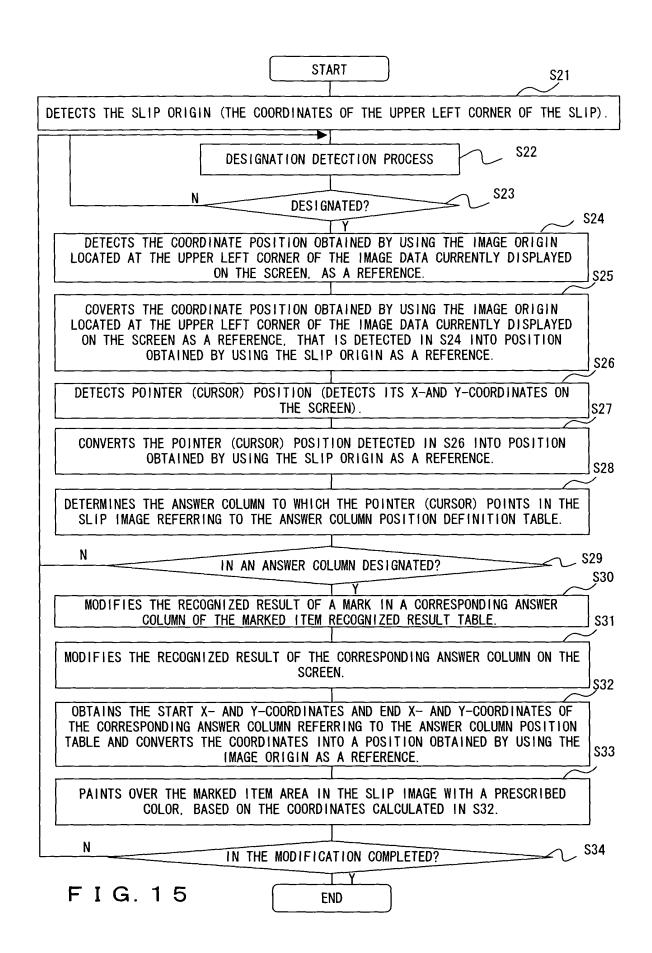
AN ANSWER COLUMN OF THE IMAGE DATA OR A FIELD OF THE RECOGNIZED RESULT IS SELECTED (IN FIG. 14A, AN ANSWER COLUMN CORRESPONDING TO AN ITEM "MALE" OR A FIELD OF THE RECOGNIZED RESULT IS SELECTED).

QUEST SEX QUEST FAVOR COLOR	ON 2	MALE		FEMALE WHITE	
MALE	1	FEMAL	ΕO		_
RED	0	WHITE	1		

MARKED ITEM RECOGNIZED RESULT TABLE

MININED	1 1 1 1 1 1	INECOGIET ZE
MALE		1
FEMALE		0
RED		0
WHITE		

FIG. 14C FIG. 14D



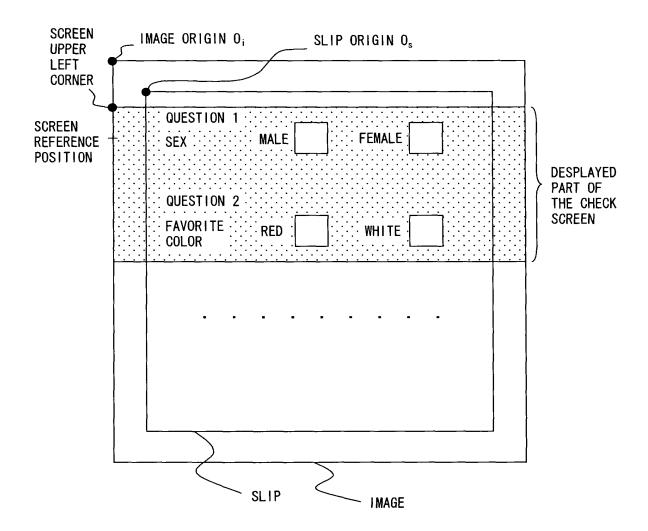
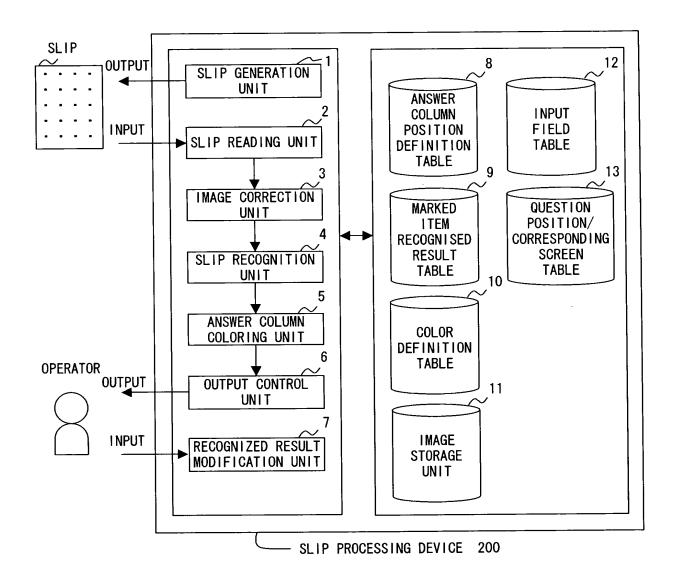


FIG. 16



F I G. 17

## QUESTION POSITION / CORRESPONDING SCREEN TABLE 13

	START Y-COORDINATE	END Y-COORDINATE	SCREEN NAME
QUESTION 1	15	20	A
QUESTION 2	30	35	В

MALE		FEMALE		INPUT FIELD SCREEN FOR QUESTION 1 (SCREEN A)
RED		WHITE		INPUT FIELD SCREEN FOR QUESTION 2 (SCREEN B)
	F	IG.	1 9 A	

GENERATION OF A CORRESPONDENCE TABLE BETWEEN THE INPUT FIELD SCREEN AND THE DISPLAYED IMAGE POSITION

THE FOLLOWING TABLE IS GENERATED BASED ON THE POSITION DEFINITION INFORMATION STORED IN THE ANSWER COLUMN POSITION DEFINITION TABLE.

QUESTION POSITION/CORRESPONDING SCREEN TABLE

	START Y-COORDINATE	END Y-COORD I NATE	SCREEN NAME	
QUESTION 1	15	20	A	
QUESTION 2	30	35	В	

# FIG. 19B

 $\Box$ 

AN INPUT FIELD SCREEN DISPLAYING THE RECOGNIZED RESULTS ABOUT THE QUESTIONS DISPLAYED IN THE IMAGE DISPLAY AREA ON THE SCREEN IS DISPLAYED IN THE RECOGNIZED RESULT DISPLAY AREA, BASED ON THE TABLE.

IN THE IMAGE

ļ.	QUESTION 2 FAVORITE [7]		FEMALE :	THE INPLIT	QUESTION 2 FAVORITE COLOR RED : WHITE X			
	MALE 1	FEMALE	0		RED	0	WHITE	1

F I G. 19C

F I G. 19D

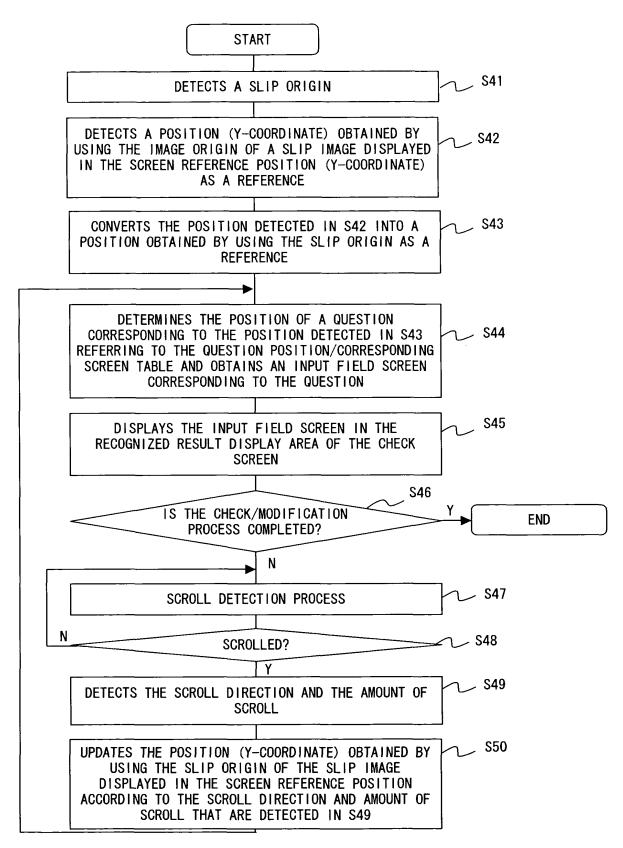
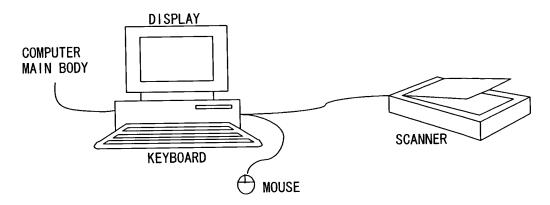


FIG. 20



SCANNER: INPUT DEVICE READING A SLIP IMAGE

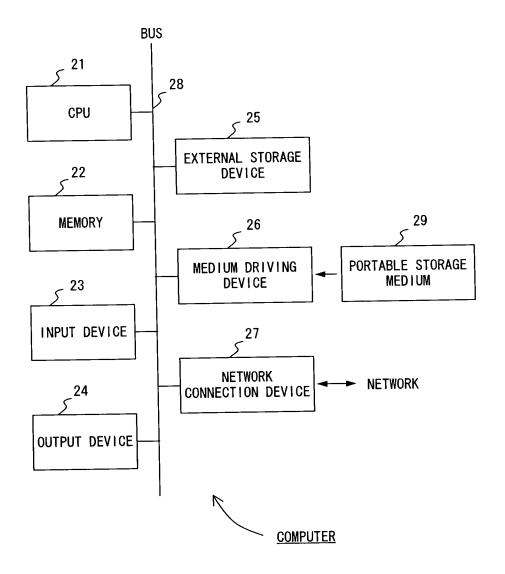


FIG. 22

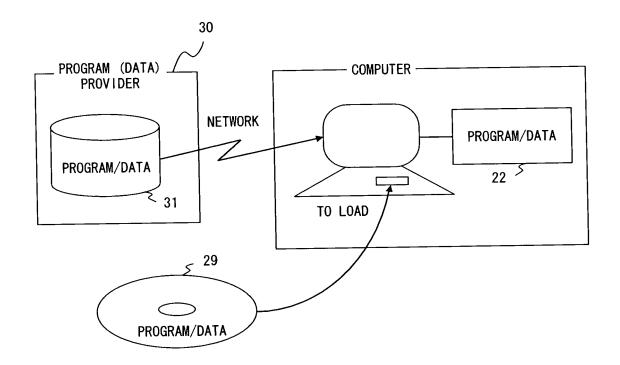


FIG. 23